

APPLICANT(S): MERON, Gavriel et al.

SERIAL NO.: 10/046,541

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AMENDMENTS TO THE SPECIFICATION

In the Abstract:

Please replace the Abstract with the following Abstract:

-- A system device and method for wide angle imaging of body lumens are provided. The system device comprises having a front end and a rear end, comprises: a plurality of optical windows, at least one optical window at the front end and at least one optical window at the rear end, each window covering at least a plurality of illumination sources and an imager, the optical windows facing different directions; a transmitter to transmit signals from the imagers to a receiver external to a patient's body; wherein the signals are transferred serially by the transmitter, over a single channel and an internal power source.

~~at least one imager and an optical system having a plurality of optical paths for imaging images from within the body lumen onto the at least one imager. The system may be incorporated in or attached onto a device that is configured to be inserted into and pass through body lumens such as an endoscope, a needle or a swallowable capsule.--~~

In the Specification:

Please replace the paragraph beginning on page 14, line 19 with the following rewritten paragraph:

-- Another embodiment of the invention is schematically illustrated in Figs. 6 and 7. In Fig. 6 a longitudinal cross section of device 60 is schematically illustrated. Device 60 comprises a plurality of optical paths 62, 62' and 62'' in which remitted light is directed to imagers 64, 64' and 64'' respectively. Each optical path and respective imager are partitioned off from the other optical paths and imagers by partitions 601, 602 and 603, and each partitioned optical path has its own illumination source 63, 63' and 63''. In one embodiment the device 60 comprises an optical dome which may extend over most of the device, covering the optical paths 62, 62' and 62'', or the device may include an optical dome covering optical path 62' and optical windows on the sides of the device covering optical paths 62 and 62''. Partitions 601, 602 and 603 may be made of opaque material and may serve to prevent interference between the operation of the different imagers and their associated illumination

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sources. The device 60 further comprises power source 65, which provides power to the entirety of electrical elements of the device, and transmitter 66 and antenna 67 for transmitting video signals from the imagers 64, 64' and 64''. --